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APPLICATION NO.	PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/749,586 12/28/200		12/28/2000	Jung-kwon Heo .	1293.1162/MDS	4838
49455	7590	02/22/2006		EXAM	INER
STEIN, MC	EWEN &	& BUI, LLP	VENT, J	VENT, JAMIE J	
1400 EYE ST	REET, N	IW			
SUITE 300			ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC	20005	2616		

DATE MAILED: 02/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	Application No.		Applicant(s)				
		09/749,5	09/749,586 HEO ET AL.						
	Office Action Summary	Examine	r	Art Unit					
		Jamie Ve		2616					
Period fo	The MAILING DATE of this communic or Reply	ation appears on th	e cover sheet wi	th the correspondence a	ddress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1) 又	Responsive to communication(s) filed	on 08 December 2	2005.						
·		o)⊠ This action is a							
3)□	Since this application is in condition fo	<i>'</i> —		ers, prosecution as to th	e merits is				
<i>,</i> —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠	Claim(s) 1-40 is/are pending in the ap	plication.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
6)🖾	⊠ Claim(s) <u>1-40</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restriction	on and/or election i	equirement.						
Applicati	on Papers								
9)	The specification is objected to by the	Examiner.							
· · · · ·	The drawing(s) filed on is/are: a) ☐ objected to t	by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.									
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	• •								
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT0	O-948)		ummary (PTO-413))/Mail Date					
3) 🔲 Infon	nation Disclosure Statement(s) (PTO-1449 or Province)			formal Patent Application (PT	TO-152)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 4, 2005 has been entered.

Response to Arguments

Applicant's arguments filed November 4, 2005 have been fully considered but they are not persuasive. On Page 13 applicant argues that the final office action dated August 11, 2005 contained an error. Applicant states that the response to arguments states that the rejection should have been a 35 U.S.C. 103(a) rejection. The applicant argues that due to the examiner stating in the argument section that the reference (Lee et al) *fails to disclose, teach or fairly suggest a limitation* (see page 2 of final office action August 11, 2005) suggests a 35 U.S.C. 103(a) type rejection. It is noted that "teach or fairly suggest" that was in the response to argument by the examiner was unintentional due to the fact that Lee et al anticipates all recited limitations of Claim 1. Therefore, the examiner reemphasizes the position that the rejection based on Lee et al discloses all limitations is a 35 U.S.C 102(b) rejection based on anticipation. Although, applicants points are understood the examiner cannot agree and therefore the rejection is maintained.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-40 are rejected under 35 U.S.C. 102(b) as being unpatentable by Lee et al (US 5,570,340).

[claim 1]

In regard to Claim 1, Lee et al discloses a recording medium on which is recorded a data structure comprising:

- first data and second data which are different from each other in type and formed
 of a respective plurality of data units (Figure 3 shows the first data 18 and second
 data 20 as further described Column 6 Lines 42-50);
- a first data unit descriptor table and a second data unit descriptor table in which
 information on the first data units and the second data units is respectively
 recorded as data unit descriptors (Figure 3 shows the first table descriptor 14 and
 second table descriptor 18 as further described in Column 6 Lines 44-52); and
- a first program descriptor table and a second program descriptor table in which
 information on one or more data units forming respective programs is stored in a
 program descriptor of a corresponding program in the form of information on
 respective data unit descriptors, wherein the information on the first data units,
 which are to be reproduced after the first data units are linked to the second data

units, is included in the program descriptor of the second program descriptor table (Column 2 Lines 32-44 describes the linking of data units that are included in the second program descriptor table.).

the first and second program descriptor tables are recorded independently of the
first and second data unit descriptor tables (Column 6 Lines 43+ describes the
data areas wherein the program descriptor tables and unit descriptor tables are
recorded. Each table has a specific area as further seen in Figure 3 and thereby
allows for independent recording of each area).

[claims 2, 7, 13, 19, 24, 32]

In regard to Claims 2, 7, 13, 19, 24, and 32, Lee et al discloses a recording medium wherein the first data is video data of still pictures and the second data is audio data (Column 1 Lines 15-25 and Column 7 Lines 15-20 discloses that the first data is video data in the form of still pictures and the second data is audio data).

[claims 3, 8, 20, 25, & 33]

In regard to Claims 3,8,20,25, and 33, Lee et al discloses a recording medium wherein predetermined information in the first data unit descriptor is copied, as the information on the first data unit, to the program descriptor of the second program descriptor table (Column 7 Lines 35-50 describes the process of copying the first data unit descriptor regarding information about the first data unit into the second program descriptor table).

[claims 4, 9, 15, 21, 26, & 34]

In regard to Claims 4, 9, 15, 21, 26 and 34, Lee et al discloses a recording medium wherein the predetermined information on a recording time of the first data unit (Figure 2 shows the time of the first data unit which is further described in Column 6 Lines 29-40).

[claims 5, 27, & 35]

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In regard to Claims 5, 27, and 35, Lee et al discloses a recording medium, wherein the predetermined information on the first data unit in the second program descriptor table is not the same as the corresponding information on the first data unit in the first data unit descriptor, the information on the first data unit in the second program descriptor table is updated so that the information is the same as the information on the first data unit in the first data unit descriptor (Column 6 Lines 7-50 describe the process wherein the second program descriptor table is updated so that information is the same as the first unit descriptor).

[claims 6, 38, & 39]

In regard to Claims 6, 38, and 39, Lee et al discloses a recording medium comprising:

- recording first data and second data, which are different from each other in type
 and each formed of a respective plurality of data units, on a recording medium
 (Figure 3 shows the first data 18 and second data 20 as further described
 Column 6 Lines 42-50 wherein the data is recorded onto the recording medium);
 and
- recording a first data unit descriptor table and a second data unit descriptor table
 on the recording medium, wherein information on the first data units and the
 second data units is stored as data unit descriptors in the first and second data
 unit descriptor tables, respectively (Figure 3 shows the first table descriptor 14
 and second table descriptor 18 as further described in Column 6 Lines 44-52);
- recording a first program descriptor table and a second program descriptor table
 on the recording medium, wherein information on one or more data units forming
 respective programs are stored as a program descriptor of a corresponding
 program in the form of information on respective data unit descriptors, and
 wherein the information on at least one of the plurality of the first data units,

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which is to be reproduced after the at least one of the plurality of first data units is linked to at least one of the plurality of the second data units, is included in the program descriptor of the second program descriptor table (Column 2 Lines 32-44 describes the linking of data units that are included in the second program descriptor table.); and

the first and second program descriptor tables are recorded independently of the
first and second data unit descriptor tables (Column 6 Lines 43+ describes the
data areas wherein the program descriptor tables and unit descriptor tables are
recorded. Each table has a specific area as further seen in Figure 3 and thereby
allows for independent recording of each area).

[claims 10, 16, 22 28, & 36]

In regard to Claims 10, 16, 22, 28, and 36, Lee et al discloses a recording method comprising:

- determining whether information on the first data unit in the second program
 descriptor table is the same as the information on the first data unit in the first
 data unit descriptor (Column 7 Lines 5-35 describes the determination of whether
 the first data unit on the second table is the same as the first data unit on the first
 table); and
- when the two items of information are not the same, updating the information on
 the first data unit in the second program descriptor table so as to become the
 same as the information on the first data unit in the first data unit descriptor, and
 recording the updated information (Column 7 Lines 35-50 describe the updating
 the information of tables so they are the same).

[claims 11 & 30]

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In regard to Claims 11 and 30, Lee et al discloses a reproducing method of reproducing data from a recording medium on which first data and second data which are different from each other in type and formed of a plurality of data units are recorded; a first data unit descriptor table and a second data unit descriptor table, in which information on the first data units and the second data units are respectively stored as data unit descriptors, are recorded (Figure 3 element 14 and 16 show the first and second descriptor tables); and a first program descriptor table and a second program descriptor table in which information on one or more data units forming respective programs are stored in the program descriptor of the corresponding program in the form of information on respective data unit descriptors, wherein in the program descriptor of the second program table information for linking the first data and the second data are recorded (Figure 9 shows the linking of various program and table information), the reproducing method comprising:

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- reading the second program descriptor having the information on the program to
 be reproduced, and then reading the information on the first data unit descriptor
 and the second data unit descriptor related to the corresponding program, from
 the read second program descriptor (Column 2 Lines 50-57 describes the
 reading of the information related to the corresponding program);
- reading the corresponding data unit descriptors from the first and second data descriptor tables corresponding to the read first and second data unit descriptors wherein the first and second program descriptor tables are recorded independently of the first and second data unit descriptor tables (Column 2 Lines 58-64 describes the reading of the corresponding tables. Furthermore, in Column 6 Lines 43+ describes the data areas wherein the program descriptor tables and unit descriptor tables are recorded. Each table has a specific area as

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further seen in Figure 3 and thereby allows for independent recording of each area).); and

 synchronizing and reproducing the first data unit and the second data unit indicated by the read first and second data unit descriptors.(Column 2 Lines 58-67 describes the synchronizing of data in the unit descriptor tables).

[claim 12]

In regard to Claim 12, Lee et al discloses a reproducing method wherein the synchronizing and reproducing further comprises:

- temporarily storing the first data units indicated by the first data unit descriptors corresponding to the program to be reproduced to a memory (Column 2 Line 57 describes the storing of the first data into the first memory); and
- reproducing the second data units indicated by the second data unit descriptors
 corresponding to the program to be reproduced, and at the same time
 synchronizing, to the second data, and reproducing the first data units after
 reading the first data units stored in the memory (Column 2 Lines 50-67
 describes the reproducing of data corresponding to the reproduced data and
 storing the data in the respected memory.)

[claim 14]

In regard to Claim 14, Lee et al discloses a reproducing method, wherein the information on the first data unit, which is to be reproduced after the first data unit is linked to the second data unit, is stored, as linkage information, in the program descriptor of the second program descriptor table, and predetermined information in the first data unit descriptor is copied, as the information on the first data unit, to the program descriptor of the second program descriptor table (Column

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3 Lines 18-30 describes the linking and copying of information of the first data unit to the second program descriptor table).

[claim 17]

In regard to Claim 17, Lee et al discloses a reproducing method further comprising:

- determining whether the information on the first data unit in the second program
 descriptor table is the same as the information, which corresponds to the
 information on the first data unit, on the first data unit in the first data unit
 descriptor (Column 3 Lines 10-17 describes the determination of whether the
 information on the first and second data unit is the same as that in the first data
 unit descriptor table); and
- when the two items of information are not the same, reproducing the second data
 unit while withholding reproduction of the first data unit (Column 3 Lines 15-30
 describes the withholding of reproduction of the first data unit when two items of
 information are not the same).

[claim 18]

In regard to Claim 18, Lee et al discloses a recording apparatus for recording data of different types on a recording medium, the recording apparatus comprising:

- a first signal processor which formats a first data stream input into independent units(Figure 10 shows the digital signal processor (DSP) 150 which decodes the signal into units as further described in Column 8 Lines 15-20),
- codes the formatted first data units, and provides the encoded first data units to the recording medium (Column 8 Lines 15-25 describes the encoding of the units to the recording medium);

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a second signal processor which formats a second data stream input into
independent units, codes the formatted second data units, and provides the
coded second data units to the recording medium (Column 8 Lines 30-58
describes the second signal processor which decodes the signal into
independent units and provides the information to the recording unit); and

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- a system controller which generates a first data unit descriptor table and a second data unit descriptor table, in which information on the first data units and the second data units are respectively stored as data unit descriptors, and a first program descriptor table and a second program descriptor table, in which information on one or more data units forming respective programs are stored in a program descriptor of a corresponding program in the form of information on respective data unit descriptors, wherein information on the first data unit, which is to be reproduced after being linked to the second data unit, is included in the program descriptor of the second program descriptor table (Figure 10 MCPU 200 controls information that is stored in the descriptor tables (memory 300). As further described in Column 8 Lines 59-67);
- the first and second program descriptor tables are recorded independently of the first and second data unit descriptor tables (Column 6 Lines 43+ describes the data areas wherein the program descriptor tables and unit descriptor tables are recorded. Each table has a specific area as further seen in Figure 3 and thereby allows for independent recording of each area).

[claims 23 & 31]

In regard to Claims 23 and 31, Lee et al discloses an apparatus for reproducing data from a recording medium on which first data and second data, which are different from each other in

type and formed of a plurality of data units, are recorded, as previously disclosed in Claim 11, with the additional limitation of the reproducing apparatus comprising:

- a system controller which reads the second program descriptor having the information on the program to be reproduced, reads the information on the first data unit descriptor and the second data unit descriptor related to the corresponding program from the read second program descriptor, and reads corresponding data unit descriptors from the first data descriptor table and the second data descriptor table corresponding respectively to read information on the first data unit descriptor and the second data unit descriptor wherein the first and second program descriptor tables are recorded independently of the first and second data unit descriptor tables (Figure 10 MCPU 200 is the system controller which reads the various descriptor table information as disclosed in Column 8 Lines 13-67. Additionally, Column 6 Lines 43+ describes the data areas wherein the program descriptor tables and unit descriptor tables are recorded. Each table has a specific area as further seen in Figure 3 and thereby allows for independent recording of each area);
- a memory (Figure 10 memory 300);
- a first signal processor and second signal processor (Figure 10 DSP 150 and MCPU acts as signal processor which decodes information regarding the data contained in the descriptor tables).

[claims 29 & 37]

In regard to Claims 29 and 37, Lee et al discloses reproducing apparatus wherein the memory is embedded in the first signal processor (Figure 10 shows the memory 300 which is embedded in the signal processor MCPU 200).

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[claim 40]

In regard to Claim 40, Lee et aldiscloses a data structure for synchronizing reproduction of a data unit of a first type with reproduction of a data unit of a second type from a recording medium, the data structure comprising: a first and second table which relates a first and second data unit descriptor with the first and second data unit and a third table which enables synchronization of predetermined ones of the first data units with predetermined ones of the second data units by reference to corresponding ones of the first and second data unit descriptors (Figure 3 shows the first table descriptor 14 and second table descriptor 18 as further described in Column 6 Lines 44-52. Furthermore, it is disclosed in Column 2 Lines 50+ a third table which provides corresponding descriptors of the first and second units).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Tsai (US 6,572,381);
- Hoffberg (US 5,903,454).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamie Vent whose telephone number is 571-272-7384. The examiner can normally be reached on 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. Effective July 15, 2005,

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the Central Fax Number will change to 571-273-8300. Faxes sent to the old number (703-872-9306) will be routed to the new number until September 15, 2005.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jamie Vent 02/17/2006

MEHRDAD DASTOURI SUPERVISORY PATENT EXAMINER

TC 2600 Clehodad Daston: